

INPUT SET: S22605.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

Kipps, Thomas J.
Sharma, Sanjai
Cantwell, Mark

(ii) TITLE OF INVENTION: NOVEL EXPRESSION VECTORS
CONTAINING ACCESSORY
MOLECULE LIGAND GENES AND
THEIR USE FOR IMMUNO-
MODULATION AND TREATMENT OF
MALIGNANCIES

(iii) NUMBER OF SEQUENCES: 44

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE:	Lyon & Lyon
(B) STREET:	633 West Fifth Street
	Suite 4700
(C) CITY:	Los Angeles
(D) STATE:	California
(E) COUNTRY:	U.S.A.
(F) ZIP:	90071-2066

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Diskette,
1.44 Mb storage
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: IBM P.C. DOS 5.0
(D) SOFTWARE: FastSeq Version 2.0

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: To Be Assigned
(B) FILING DATE:

44
45
46

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/982,272

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47 (C) CLASSIFICATION:

48

49

50 (vii) PRIOR APPLICATION DATA:

51

52 (A) APPLICATION NUMBER: 60/132145

53 (B) FILING DATE: 12/9/96

54

55

56 (viii) ATTORNEY/AGENT INFORMATION:

57

58 (A) NAME: Guise, Jeffrey W.

59 (B) REGISTRATION NUMBER: 34,613

60 (C) REFERENCE/DOCKET NUMBER: 231/003

61

62

63 (ix) TELECOMMUNICATION INFORMATION:

64

65 (A) TELEPHONE: (213) 489-1600

66 (B) TELEFAX: (213) 955-0440

67 (C) TELEX: 67-3510

68

69

70 (2) INFORMATION FOR SEQ ID NO: 1:

71

72 (i) SEQUENCE CHARACTERISTICS:

73

74 (A) LENGTH: 786 base pairs

75 (B) TYPE: nucleic acid

76 (C) STRANDEDNESS: single

77 (D) TOPOLOGY: linear

78

79 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

80

81 ATGATCGAAA	CATACAACCA	AACTTCTCCC	CGATCTGCGG	CCACTGGACT	GCCCATCAGC	60
82 ATGAAAATTT	TTATGTATTT	ACTTACTGTT	TTTCTTATCA	CCCAGATGAT	TGGGTCAAGCA	120
83 CTTTTGCTG	TGTATCTTCA	TAGAAGGTTG	GACAAGATAG	AAGATGAAAG	GAATCTTCAT	180
84 GAAGATTTG	TATTCATGAA	AACGATACAG	AGATGCAACA	CAGGAGAAAG	ATCCTTATCC	240
85 TTACTGAAC	GTGAGGAGAT	AAAAAGCCAG	TTTGAAGGCT	TTGTGAAGGA	TATAATGTTA	300
86 AACAAAGAGG	AGACGAAGAA	AGAAAACAGC	TTTGAAATGC	AAAAGGTGA	TCAGAATCCT	360
87 CAAATTGCGG	CACATGTCAT	AAAGTAGGCC	AGCAGTAAAA	CAACATCTGT	GTTACAGTGG	420
88 GCTGAAAAAG	GATACTACAC	CATGAGCAAC	AACTGGTAA	CCCTGGAAAA	TGGGAAACAG	480
89 CTGACCGTTA	AAAGACAAGG	ACTCTATTAT	ATCTATGCC	AAGTCACCTT	CTGTTCCAAT	540
90 CGGGAAGCTT	CGAGTCAAAGC	TCCATTATA	GCCAGCCTCT	GCCTAAAGTC	CCCCGGTAGA	600
91 TTGAGAGAA	TCTTACTCAG	AGCTGCAAAT	ACCCACAGTT	CCGCCAAACC	TTGCGGGCAA	660
92 CAATCCATTG	ACTTGGGAGG	AGTATTTGAA	TTGCAACAG	GTGCTTCGGT	GTTTGTCAAT	720
93 GTGACTGATC	CAAGCCAAGT	GAGCCATGCC	ACTGGCTTCA	CGTCCTTGG	CTTACTCAA	780
94	CTCTGA					786

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96

97

98 (2) INFORMATION FOR SEQ ID NO: 2:

99

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/982,272DATE: 01/14/98
TIME: 16:27:34

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100 (i) SEQUENCE CHARACTERISTICS:

101

102 (A) LENGTH: 783 base pairs

103 (B) TYPE: nucleic acid

104 (C) STRANDEDNESS: single

105 (D) TOPOLOGY: linear

106

107 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

108

109 ATGATAGAAA CATAACGCCA ACCTTCCCCC AGATCCGTGG CAACTGGACT TCCAGCGAGC	60
110 ATGAAGATTT TTATGTATTT ACTTACTGTT TTCTTATCA CCCAAATGAT TGGATCTGTG	120
111 CTTTTGCTG TGTATCTCA TAGAAGATTG GATAAGGTG AAGAGGAAGT AAACCTTCAT	180
112 GAAGATTTG TATTCTAAA AAAGCTAAAG AGATGCAACA AAGGAGAAGG ATCTTATCC	240
113 TTGCTGAAC TGTGAGGAGAT GAGAAGGCAA TTTGAAGACC TTGTCAGGA TATAACGTTA	300
114 AACAAAGAAG AGAAAAAGA AAACAGCTTT GAAATGCAAA GAGGTGATGA GGATCCTCAA	360
115 ATTGCAAGCAC ACGTTGTAAG CGAAGCCAA ACAGTGCAG CATCCGTTCT ACAGTGGGCC	420
116 AAGAAAGGAT ATTATACCAT GAAAAGCAAC TTGTTAATGC TTGAAATGG GAAACAGCTG	480
117 ACGGTTAAAA GAGAAGGACT CTATTATGTC TACACTCAAG TCACCTTCTG CTCTAACCGG	540
118 GAGCCTTCGA GTCAACGCCA ATTCACTCGTC GGCCTCTGGC TGAAGCCAG CATTGGATCT	600
119 GAGAGAAATCT TACTCAAGGC GCAAATACC CACAGTTCC CCAAGCTGGT CGAGCAGCAG	660
120 TCTGTTCACT TGGCGGAGT GTTTGAATTA CAAGCTGGT CTTCTGTGTT TGTCAACGTT	720
121 ACTGAAGCAA GCCAAGTGAT CCACAGAGTT GGCTTCTCAT CTTTTGGCTT ACTCAAACTC	780
122 TGA	783
123	
124	
125	
126	
127 (2) INFORMATION FOR SEQ ID NO: 3:	
128	
129 (i) SEQUENCE CHARACTERISTICS:	
130	
131 (A) LENGTH: 783 base pairs	
132 (B) TYPE: nucleic acid	
133 (C) STRANDEDNESS: single	
134 (D) TOPOLOGY: linear	
135	
136 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
137	
138 ATGATCGAAA CATAACAACCA AACTTCTCCC CGATCTGCGG CCACTGGACT GCCCATCAGC	60
139 ATGAAAATTT TTATGTATTT ACTTACTGTT TTCTTATCA CCCAGATGAT TGGGTCAAGCA	120
140 CTTTTGCTG TGTATCTCA TAGAAGATTG GATAAGGTG AAGAGGAAGT AAACCTTCAT	180
141 GAAGATTTG TATTCTAAA AAAGCTAAAG AGATGCAACA AAGGAGAAGG ATCTTATCC	240
142 TTGCTGAAC TGTGAGGAGAT GAGAAGGCAA TTTGAAGACC TTGTCAGGA TATAACGTTA	300
143 AACAAAGAAG AGAAAAAGA AAACAGCTTT GAAATGCAAA GAGGTGATGA GGATCCTCAA	360
144 ATTGCAAGCAC ACGTTGTAAG CGAAGCCAA ACAGTGCAG CATCCGTTCT ACAGTGGGCC	420
145 AAGAAAGGAT ATTATACCAT GAAAAGCAAC TTGTTAATGC TTGAAATGG GAAACAGCTG	480
146 ACGGTTAAAA GAGAAGGACT CTATTATGTC TACACTCAAG TCACCTTCTG CTCTAACCGG	540
147 GAGCCTTCGA GTCAACGCCA ATTCACTCGTC GGCCTCTGGC TGAAGCCAG CATTGGATCT	600
148 GAGAGAAATCT TACTCAAGGC GCAAATACC CACAGTTCC CCAAGCTGGT CGAGCAGCAG	660
149 TCTGTTCACT TGGCGGAGT GTTTGAATTA CAAGCTGGT CTTCTGTGTT TGTCAACGTT	720
150 ACTGAAGCAA GCCAAGTGAT CCACAGAGTT GGCTTCTCAT CTTTTGGCTT ACTCAAACTC	780
151 TGA	783
152	

INPUT SET: S22605.raw

153
 154
 155 (2) INFORMATION FOR SEQ ID NO: 4:
 156
 157 (i) SEQUENCE CHARACTERISTICS:
 158
 159 (A) LENGTH: 786 base pairs
 160 (B) TYPE: nucleic acid
 161 (C) STRANDEDNESS: single
 162 (D) TOPOLOGY: linear
 163
 164 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 165
 166 ATGATCGAAA CATAACAACCA AACTTCTCCC CGATCTGCGG CCACTGGACT GCCCATCAGC 60
 167 ATGAAAATTT TTATGTATTT ACTTACTGTT TTCCTTATCA CCCAAATGAT TGGATCTGTG 120
 168 CTTTTTGCTG TGTATCTTCA TAGAAGGTTG GACAAGATAG AAGATGAAAG GAATCTTCAT 180
 169 GAAGATTTG TATTATGAA AACGATACAG AGATGCAACA CAGGAGAAAG ATCCTTATCC 240
 170 TTACTGAAC TGTGAGGAGAT TAAAAGCCAG TTTGAAGGCT TTGTGAAGGA TATAATGTTA 300
 171 AACAAAGAGG AGACGAAGAA AGAAAACAGC TTTGAAATGC AAAAAGGTGA TCAGAATCCT 360
 172 CAAATTGCGG CACATGTCAT AAGTGAGGCC AGCAGTAAAA CAACATCTGT GTTACAGTGG 420
 173 GCTGAAAAAG GATACTACAC CATGAGCAAC AACTTGGTAA CCCTGGAAAA TGGGAAACAG 480
 174 CTGACCGTTA AAAGACAAGG ACTCTTATTAT ATCTATGCC AAGTCACCTT CTGTTCCAAT 540
 175 CGGGAAGCTT CGAGTCAAAGC TCCATTATA GCCAGCCTCT GCCTAAAGTC CCCCCGGTAGA 600
 176 TTCGAGAGAA TCTTACTCAG AGCTGCAAAT ACCCACAGTT CCGCCAAACC TTGCGGGCAA 660
 177 CAATCCATTC ACTTGGGAGG AGTATTTGAA TTGCAACCAAG GTGCTTCGGT GTTTGTCAAT 720
 178 GTGACTGATC CAAGCCAAGT GAGCCATGGC ACTGGCTTCA CGTCCTTTGG CTTACTCAAA 780
 179 CTCTGA
 180
 181
 182
 183 (2) INFORMATION FOR SEQ ID NO: 5:
 184
 185 (i) SEQUENCE CHARACTERISTICS:
 186
 187 (A) LENGTH: 783 base pairs
 188 (B) TYPE: nucleic acid
 189 (C) STRANDEDNESS: single
 190 (D) TOPOLOGY: linear
 191
 192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 193
 194 ATGATCGAAA CATAACAACCA AACTTCTCCC CGATCTGCGG CCACTGGACT GCCCATCAGC 60
 195 ATGAAAATTT TTATGTATTT ACTTACTGTT TTCCTTATCA CCCAAATGAT TGGATCTGTG 120
 196 CTTTTTGCTG TGTATCTTCA TAGAAGATTG GATAAGGTG AAGAGGAAGT AAACCTTCAT 180
 197 GAAGATTTG TATTATCAA AAAGCTAAAG AGATGCAACA AAGGAGAAGG ATCTTATCC 240
 198 TTGCTGAAC TGTGAGGAGAT GAGAAGGCAA TTTGAAGACC TTGTCAAGGA TATAACGTTA 300
 199 AACAAAGAAG AGAAAAAAAGA AAACAGCTT GAAATGCAA GAGGTGATGA GGATCCTCAA 360
 200 ATTGCAAGCAC ACGTTGTAAG CGAAGCCAAC AGTAATGCGAG CATCCGTTCT ACAGTGGGCC 420
 201 AAGAAAGGAT ATTATACCAT GAAAAGCAAC TTGGTAATGC TTGAAAATGG GAAACAGCTG 480
 202 ACGGTTAAAA GAGAAGGACT CTATTATGTC TACACTCAAG TCACCTTCTG CTCTAATCGG 540
 203 GAGCCTTCGA GTCAACGCC ATTCACTCGTC GGCCTCTGGC TGAAGCCAG CATTGGATCT 600
 204 GAGAGAAATCT TACTCAAGGC GGCAAATACC CACAGTTCC CCGAGCTTTG CGAGCAGCAG 660
 205 TCTGTTCACT TGGGCGGAGT GTTGAATTA CAAGCTGGTG CTTCTGTGTT TGTCAACGTG 720

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/982,272DATE: 01/14/98
TIME: 16:27:41

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206 ACTGAAGCAA GCCAAGTGAT CCACAGAGTT GGCTTCTCAT CTTTTGGCTT ACTCAAACTC 780
 207 TGA 783

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209

210

211 (2) INFORMATION FOR SEQ ID NO: 6:

212

213 (i) SEQUENCE CHARACTERISTICS:

214

215 (A) LENGTH: 786 base pairs
 216 (B) TYPE: nucleic acid
 217 (C) STRANDEDNESS: single
 218 (D) TOPOLOGY: linear

219

220 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

221

222 ATGATAGAAA CATAACGCCA ACCTTCCCCC AGATCCGTGG CAACTGGACT TCCAGCGAGC	60
223 ATGAAGATTT TTATGTATTT ACTTACTGTT TTTCTTATCA CCCAGATGAT TGGGTCAGCA	120
224 CTTTTGCTG TGTATCTTCA TAGAAGGTTG GACAAGATAG AAGATGAAAG GAATCTTCAT	180
225 GAAGATTTG TATTATGAA AACGATACAG AGATGCAACA CAGGAGAAAG ATCCTTATCC	240
226 TTACTGAAC TGTGAGGAGAT TAAAAGCCAG TTTGAAGGCT TTGTGAAGGA TATAATGTTA	300
227 AACAAAGAGG AGACGAAGAA AGAAAACAGC TTTGAATGC AAAAAGGTGA TCAGAATCCT	360
228 CAAATTGCGG CACATGTCAT AAGTGAGGCC AGCAGTAAAA CAACATCTGT GTTACAGTGG	420
229 GCTGAAAAAG GATACTACAC CATGAGCAAC AACTTGGTAA CCCTGGAAAA TGGGAAACAG	480
230 CTGACCGTTA AAAGACAAGG ACTCTATTAT ATCTATGCC AAGTCACCTT CTGTTCCAAT	540
231 CGGGAAAGCTT CGAGTCAAGC TCCATTATA GCCAGCCTCT GCCTAAAGTC CCCCCGTTAGA	600
232 TTCTGAGAGAA TCTTACTCAG AGCTGCAAAT ACCCACAGTT CCGCCAAACC TTGCGGGCAA	660
233 CAATCCATTC ACTTGGGAGG AGTATTTGAA TTGCAACCCAG GTGCTTCGGT GTTTGTCAAT	720
234 GTGACTGATC CAAGCCAAGT GAGCCATGGC ACTGGCTTCA CGTCCTTTGG CTTACTCAAA	780
235 CTCCTGA	786

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245 (2) INFORMATION FOR SEQ ID NO: 7:

246

247 (i) SEQUENCE CHARACTERISTICS:

248

249 (A) LENGTH: 786 base pairs
 250 (B) TYPE: nucleic acid
 251 (C) STRANDEDNESS: single
 252 (D) TOPOLOGY: linear

253

254 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

255

256 ATGATAGAAA CATAACGCCA ACCTTCCCCC AGATCCGTGG CAACTGGACT TCCAGCGAGC	60
257 ATGAAGATTT TTATGTATTT ACTTACTGTT TTTCTTATCA CCCAAATGAT TGGATCTGTG	120
258 CTTTTGCTG TGTATCTTCA TAGAAGGTTG GACAAGATAG AAGATGAAAG GAATCTTCAT	180

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/982,272

DATE: 01/14/98
TIME: 16:27:46

INPUT SET: S22605.raw

Line	Error	Original Text
45	Wrong application Serial Number	(A) APPLICATION NUMBER: To Be Assigned